BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of the work: **Improvements to Cross Roads and Drains at Naidu Layout in Ward No. 11, Vidyaranyapura Sub Division.**

			Estimate Cost:						1000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 150 / Item No. 19.2/ PWD SR 2012-13**	Cum							
	Naidu Layout Main Road to Munianjinappa House Cross Road		1	180.00	6.00	0.15	162.00		
							162.00	**81.00**	**13122.00**
	Basic Rate	75.00							
	Area Weightage @8%	6.00							
	Total	**81.00**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using 40mm and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(P.12/I.4.3 PWD SR - 2012-13)**	Cum							
	Repair of CC Drain		2	50.00	0.90	0.15	13.50		
							13.50	3884.76	**52444.00**
	Basic Rate	3597.00							
	Area Weightage @ 8%	287.76							
	Total	**3884.76**							
3	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls at any thickness,** including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **(P.17 / I.4.31 PWD SR - 2012-13)**	Sqm							
			3x2	50.00		0.60	180.00		
							180.00	244.08	**43934.00**
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							
	Total	**244.08**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **(P.13/I.4.11 PWD SR - 2012-13)**	Cum							
	CC Drain Repair Portion Bottom		2	50.00	0.90	0.10	9.00		
	Side Walls		2x2	50.00	0.10	0.60	12.00		
	Covering Slab		1	150.00	0.90	0.10	13.50		
							34.50	5239.08	**180748.00**
	Basic Rate	4851.00							
	Area Weightage @ 8%	388.08							
	Total	**5239.08**							
5	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.46/ PWD SR 2012-13**	Qntl							
			0.60	34.50			20.70		
							20.70	7323.48	**151596.00**
	Basic Rate	6781.00							
	Area Weightage 8%	542.48							
	Total	**7323.48**							
6	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P.167/I.20.18) PWD SR - 2012-13.**	Cum							
	Naidu Layout Main Road to Munianjinappa House Cross Road		1	180.00	5.00	0.15	135.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							135.00	1059.48	**143030.00**
	Basic Rate	981.00							
	Area Weightage @ 8%	78.48							
	Total	**1059.48**							
7	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.172 / I.21.1) PWDSR 2012-13**	Sqm							
			1	180.00	5.00		900.00		
							900.00	9.29	**8359.00**
	Basic Rate	8.60							
	Area Weightage @ 8%	0.69							
	Total	**9.29**							
8	KSRRB 500-9: Providing and applying tack coat on granular base such as WBM and WMM surfaces hot bitumen primed at 10 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specifications 5, **No. 173 / Item No. 21.9/ PWD SR 2012-13**	Sqm							
			Qty Vide Item No.7				900.00		
							900.00	26.24	**23620.00**
	Basic Rate	24.30							
	Area Weightage @ 8%	1.94							
	Total	**26.24**							
9	KSRRB M500-19: providing and laying **bituminous concrete** 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification NO. 509, **With bitumen 80/100, No. 176 / Item No. 21.22.1/ PWD SR 2012-13**	Cum							
			1	180.00	5.00	0.040	36.00		
							36.00	10284.84	**370254.00**
	Basic Rate	9523.00							
	Area Weightage @ 8%	761.84							
	Total	**10284.84**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
				Vide Item No. 1			**162.00**	72.71	**11778.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
11	Miscellaneous and other Charges	L/S							1115.00
								Total	**1000000.00**

(Rs. Ten Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2012-13.
3 This work included under 2011-12 MLA Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs 10 Lakh.
Rupees Ten Lakh Rupees only
Under P2434 Development & Works for Bangalore City
Registered as EE ( ) No 3.....9.....
Subject to conditions contained in enclosed memo EE(Y) No 532/2012-13
Dt 10.09.2012 Estimate A/Sanctioned JC(W)AA/532/ No 2012-13
dated 10.9.2012 Rs 10 Lakh

Technical Sanction for Rs. 10.00 lakh cancelled
Ten lakh only
under P-2434 Development of Works for Bangalore City
registered as EE No: 227/12-13 Subject to conditions contained enclosed memo.
No: 227/12-13/ Dr. 10-9-12

AE/JE

EE (BTP. Div.)

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92.

10/9/12